



11 Publication number:

0 541 063 A3

(12)

EUROPEAN PATENT APPLICATION

(1) Application number: 92118894.2

(51) Int. Cl.5: A61B 17/00

2 Date of filing: 04.11.92

Priority: 05.11.91 US 790656

② Date of publication of application: 12.05.93 Bulletin 93/19

Designated Contracting States:
DE ES FR GB

® Date of deferred publication of the search report: 13.10.93 Bulletin 93/41

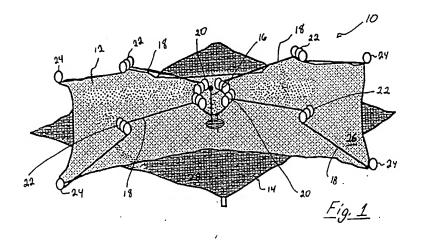
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- Minproved occluder for repair of cardiac and vascular defects.
- (12,14) fastened to each other, each occluder including a framework having a central hub (18) with elongated struts (18) radiating therefrom. The struts

are constructed such that they have a resistance to fatigue that exceeds the maximum fatigue stresses to which the struts will be subjected over a prolonged period in vivo. As such, the device exhibits a significantly decreased likelihood of metal fatigue failures after prolonged exposure in vivo.





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		SIDERED TO BE RELEVA			
Category	of relevant	passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
D,X Y	US-A-4 007 743 (B * abstract; figur	LAKE) e 8 *	1-6 14-22, 27-34	A61B17/00	
Ý	CA-A-1 146 228 (MEDTRONIC) * page 2, paragraph 1 * * page 3, paragraph 1 *		14-22, 27-34		
•	US-A-4 142 531 (M/ * column 3, line 3	3 - line 23: claim 1 *	14, 15, 27-29		
	* column 6, paragi EP-A-0 159 753 (AS * page 12, last pa		16-19, 30-34		
	paragraph 1 * DE-A-2 822 603 (Th * page 12, last pa	 HERFELDER) ragraph; figures 12,8 *	7,23	TECHNICAL FIELDS SEARCHED (Int. CI.5)	
	ed, vol 3' 1980 , AMERICAN SO	O) 'Metals Handbook, 9th CIETY FOR METALS , OHIO 2, last paragraph - h 1 *	21		
,	SIMS AND HAGEL (ED 1972 , WILEY , NEW * Section on heat * page 161 - page	treatment *	20,22		
,	1990 , ASM INTERNA	1, last paragraph *	16-18, 30-34		
	The present search report has	been drawn up for all claims			
Place of search Date of completion of the s		Date of completion of the search 13 AUGUST 1993	B	Examples S. RARTON S.	
X : partici Y : partici docum A : techno	TEGORY OF CITED DOCUME plarly relevant if taken alone plarly relevant if combined with an ent of the same category logical background itten disclosure	E : earlier patent do	cument, but publishate the application or other reasons	hed on, or	

EPO FORM 1503 03.42 (P0401)



CLAIMS INCURRING FEES							
The present European patent application comprised at the time of filing more than ten claims.							
	All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.						
	Only part of the claims fees have been paid within the prescribed time limit. The present European search						
	report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,						
	namely claims:						
	No claims fees have been paid within the prescribed time limit. The present European search report has been						
	drawn up for the first ten claims.						
	ACK OF UNITY OF INVENTION						
	th Division considers that the present European patent application does not comply with the requirement of unity of						
	and relates to several inventions or groups of inventions.						
namely:							
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_	All frether speech feet have been evid within the floor time.						
x	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up tor all claims.						
	Only part of the further search lees have been paid within the fixed time limit. The present European search						
J	report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid.						
	namely claims:						
	None of the further search fees has been paid within the fixed time limit. The present European search report						
	has been drawn up for those parts of the European patent application which relate to the invention first						
	mentioned in the claims,						
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	DOCUMENTS CONSID	FRED TO BE RELEVA	ANT	Page Z	
Category	Citation of document with indi	cation, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
A	DE-A-3 116 462 (THIER * page 7, paragraph 3	FELDER)	7,9,23		
A	GB-A-1 169 419 (EDWAR * page 2, column 1, p 2,3 *	 DS) aragraph 2; figures	5		
A	US-A-4 629 458 (PINCH * claim 25 *	UK)	23		
	-				
				TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
				,	
i	The present search report has been	drawn up for all claims			
	Place of search	Date of completion of the search		Examiner DADTON C	
	THE HAGUE	13 AUGUST 1993		BARTON S.	
X : part Y : part doct	CATEGORY OF CITED DOCUMENTS incularly relevant if taken alone incularly relevant if combined with another ument of the same category professiont beckenning.	E : earlier paten after the fili r D : document ci L : document ci	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons		
A : technological background O : non-written disclosure P : intermediate document			&: member of the same patent family, corresponding document		

EPO FORM 1503 03.82 (P0401)

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

- 1. Claims 1-13,23-26: Hinged structure for vascular defect occluder
- 2. Claims 1,14-22,27-34: Materials for vascular defect occluder frame

